

STRATEGIC PLAN

Naval Meteorology and
Oceanography Command



May 1997



Policy...

“Understanding the Oceans is fundamental to our national security, as well as global economic and environmental well-being. A robust competency in oceanography is a core requirement and responsibility of the U.S. Navy. It is so vital to the success of naval operations that the Navy must lead in focusing attention on ocean policy and programs.”



*Chief of Naval Operations
November 1995*

Foreword

Commitment...

The Armed Forces of the United States must have the best meteorology and oceanography (METOC) information. We in the Naval Meteorology and Oceanography Command (NAVMETOCCOM) provide that today and continually look to the future to ensure improvement. This strategic plan embraces *Joint Vision 2010, Forward...from the Sea, Operational Maneuver From the Sea* (as well as the evolving *Sea Dragon* concept), and the Chief of Naval Operations' *Naval Oceanography Vision*.

We ensure naval readiness and are an integral component of the Navy's warfighting force, deployed globally afloat and ashore in every geographic theater. From our forward and engaged posture, we will fully characterize the weather, oceanography, and physical environment of the battlespace using the latest technology and methods to be connected with the warfighter.



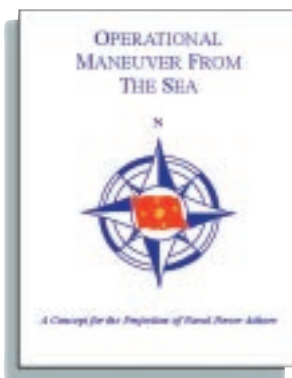
Commander,
Naval Meteorology and Oceanography Command

Endorsement...

In an era of fiscal constraint, it is increasingly important that we seize upon the numerous technology advancements and geopolitical opportunities that are available from within the Navy and other Federal, civil, and international organizations. Therefore, we fully endorse the Commander, Naval Meteorology and Oceanography Command's vision for the way ahead and foresee truly revolutionary technological progress in support of our customers and in cooperation with the scientific and military community.



Oceanographer of the Navy



Mission

We provide global Meteorological, Oceanographic (METOC), and mapping, charting, and Global Geospatial Information and Services (GGI&S) critical for safe and effective operations of the Navy and Marine Corps and the Department of Defense.

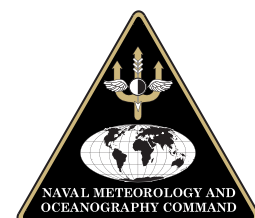


Vision

We will enhance our operating forces' ability to operate safely and dominate the battlespace through superior understanding and exploitation of the natural environment.

We will operate from a forward engaged and expeditionary posture.

We will remain world leaders in operational Meteorology, Oceanography, and mapping, charting, and Global Geospatial Information and Services (GGI&S).



Strategic Outcomes

- **Safe Operating Forces**
Protect all assets. There will be no cheap kills due to Mother Nature!
- **Enhanced Warfighting Capabilities**
Fully characterize the battlespace environment to the warfighter in terms which enable optimal employment of systems and platforms
- **Optimized Warfighting Resources**
Generate fiscal savings and increase military readiness through better forecasting of the global environment
- **Advanced Core Competencies**
Influence and exploit advances in science and technology to best characterize the natural environment

From the top of the atmosphere...

...to the bottom of the sea



Bridge to Force 2010

Bring it Together...

- Fully embrace evolving DoD C⁴I backbone for safety of operations across the full spectrum of military operations.
- Provide the warfighter user-friendly interfaces with our information.
- Leverage DoD, allied and commercial resources to expand and standardize our suite of equipment, decision aids, and products to best describe environmental impacts.
- Integrate survey with combatant sensor data collection to rapidly and more completely assess the battlespace and update decision aids.
- Integrate environmental considerations into new weapons and sensors at the systems development level.
- Develop and expand partnerships to leverage diminishing resources.
- Exploit any external opportunity to add value to Naval and Joint Operational Oceanography.



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Make it Better...	Fine Tune it...	Strategic Outcomes
<ul style="list-style-type: none"> • Improve near term forecasts of significant environmental impacts and present information based on operational thresholds. 	<ul style="list-style-type: none"> • Provide timely and comprehensive environmental assessments that enable planners to anticipate operational impacts, make informed decisions and avoid potential losses due to environmental effects. 	 Safe Operating Forces
<ul style="list-style-type: none"> • Enable more effective use of the environment by integrating its exploitation into warfighting doctrine. • Identify and instill in warfighters, the essential environmental skills to optimally employ their systems. 	<ul style="list-style-type: none"> • Furnish products focused on fine scale tactical and strategic environmental effects which every warfighter will understand. Products will present the right information, will be on time and accurate at every decision point. 	 Enhanced Warfighting Capabilities
<ul style="list-style-type: none"> • Maximize DoN and DoD operating efficiencies through more accurate and longer range forecasts (beyond seven days). • Improve model accuracies using data from on-scene combatant sensors. 	<ul style="list-style-type: none"> • Tailor Naval METOC support to the requirements of each joint mission. • Meet the needs for environmental support and battlespace characterization posed by the next generation of weapons and sensors. 	 Optimized Warfighting Resources
<ul style="list-style-type: none"> • Eliminate one-of-a-kind systems and extend the life of capital equipment by designing for multiple uses and incorporating leading edge technologies. • Refine our understanding of the physical sciences through higher education and by encouraging research and development. 	<ul style="list-style-type: none"> • Apply our scientific expertise better and faster, anywhere on the globe. • Continually improve military technical skills through education, training, partnerships and liaison programs in order to better focus our programs on critical operational needs. 	 Advanced Core Competencies



Safe Operating Forces

Know what to expect before you get there



Safety is fundamental to our mission and is the basis for virtually every function we perform. The environment is a powerful and dynamic force and the need to forecast its impact on operations will never change. We will provide increasingly accurate and tailored flight forecasts for military aircraft worldwide, ashore and afloat. Particular emphasis will be placed on improving the operationally critical 0 to 12 hour forecasts.

We will continually improve our Optimum Track Ship Routing (OTSR) and ship weather forecasting services and encompass new visualization techniques to make the information more meaningful and useful. Global and regional forecasts will become more accurate, extend beyond seven days, and focus on operational thresholds. We will develop the capability to instantly generate state-of-the-art forecasts at any time and for any place on the globe.

We will leverage DoD, allied, and commercial resources to acquire all-source data in conjunction with our conventional survey assets to rapidly assess factors which impact safety of navigation and mission execution and communicate that information to our customers.

Fully embrace C⁴I architecture

Improve forecasts of significant impacts

Enable planners to:

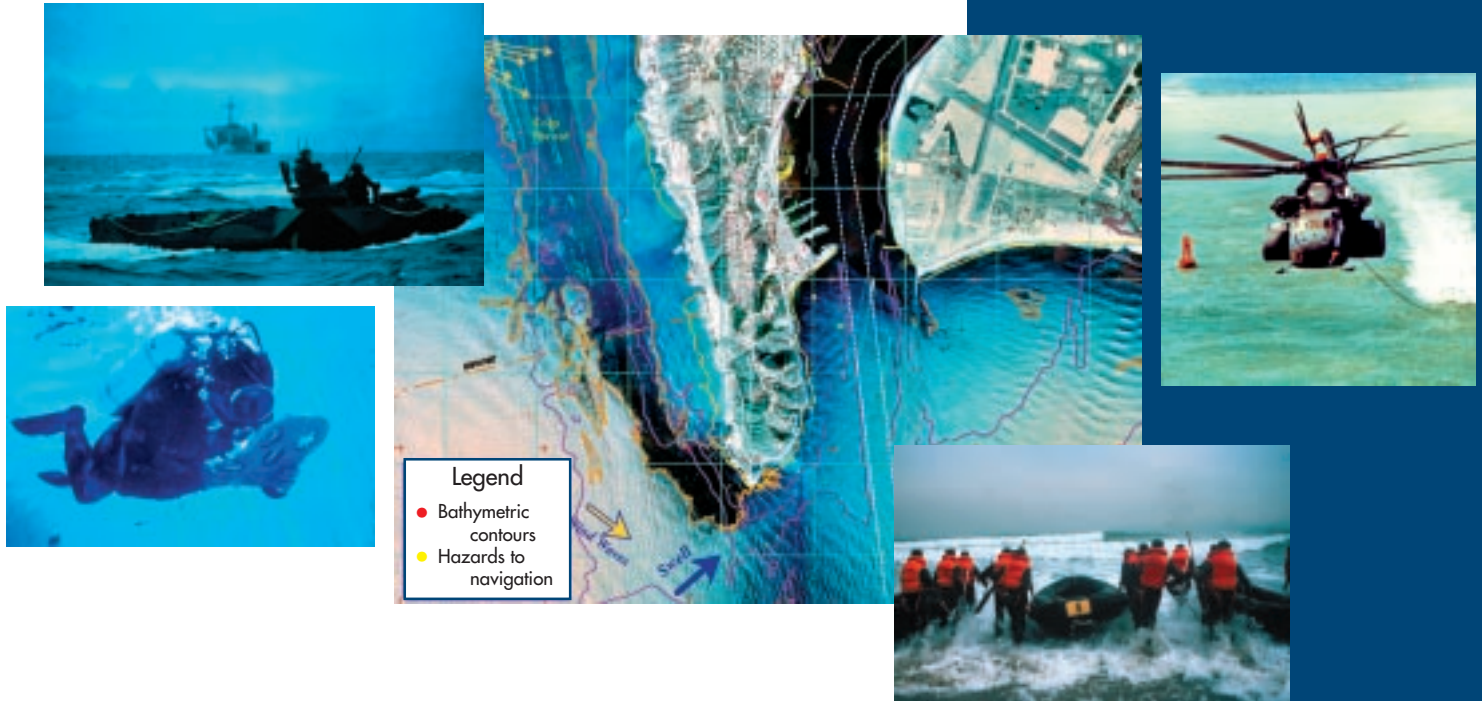
- anticipate operational impacts
 - make informed decisions
 - avoid potential losses
-



Precision Engagement Dominant Maneuver
Full Dimensional Protection Focused Logistics

Enhanced Warfighting Capabilities

Information tailored to meet your needs



Exploiting the battlespace environment has always been and will continue to be critical to the success of military missions. To that end, *we are key to Intelligence Preparation of the Battlefield in the littoral engagement*. Furthermore, with *Joint Vision 2010's* concept of smaller, highly mobile, widely dispersed, and mutually supporting forces, a detailed understanding of the battlespace environment becomes even more critical.

Our plan to meet these needs includes exploiting simple and affordable C⁴I technology and automation to focus valuable personnel on selectively fusing environmental information to meet mission needs. We will provide the environmental data for tactical decision aids, systems, wargames, and simulators to accurately depict and automatically compensate for environmental effects. We will develop equipment and techniques to rapidly gather, process, assess, and define virtually any operating environment to on-scene, tactical forces. As a result, smart systems will be made smarter and platforms will be optimized for the battle environment.

For tomorrow's warfighter, this information can provide the margin for success!

Provide user-friendly interfaces

Standardize equipment, decision aids, and products

Integrate environment into doctrine

Instill environmental skills

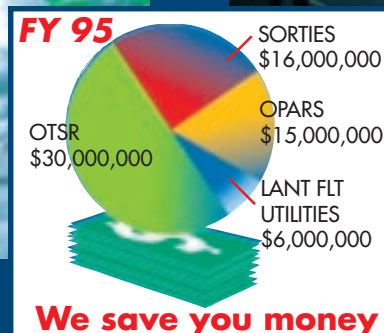
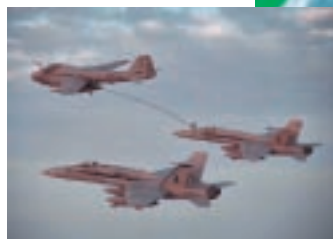
Present the right information:

- on time
- accurate at every decision point



Optimized Warfighting Resources

Make informed decisions



Tomorrow's forces must operate with greater efficiency and effectiveness than ever before. The tools we provide the warfighter and logistician will enable our forces to arrive on time with the optimal load-out, minimum fuel expenditures, and no environmental damage. Optimum Track Ship Routing (OTSR) and Optimum Path Aircraft Routing System (OPARS) services will exploit advances in modeling, remote sensing, C⁴I and visualization technology to provide a revolutionary increase in functionality and accuracy.

Every resource of our smaller, highly mobile, and mutually supportive combat forces must operate at maximum efficiency. Understanding the environment will enable these forces to optimize each sensor, weapon, and platform to cover the greatest area, increase their endurance and range, and destroy the target, using the least amount of resources.

We will utilize combatant data collection capabilities to minimize collection costs and rapidly assimilate data into forecast models and tactical decision aids.

Incorporate combatant sensor data collection

Integrate environment at the systems development level

Extend forecasts beyond seven days

Improve short term forecast accuracies

Tailored/joint support

Meet the needs of future weapons and sensors



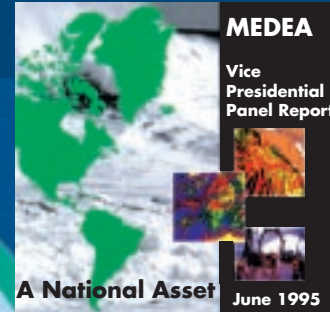
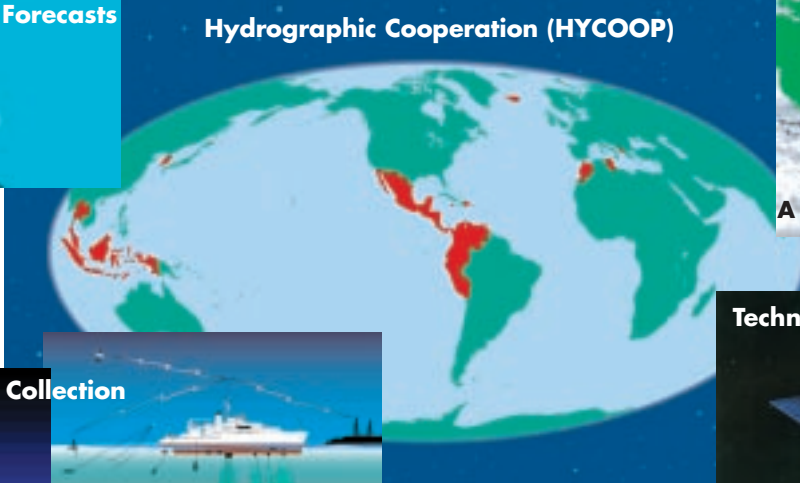
Advanced Core Competencies

The best information possible



Global Forecasts

Hydrographic Cooperation (HYCOOP)

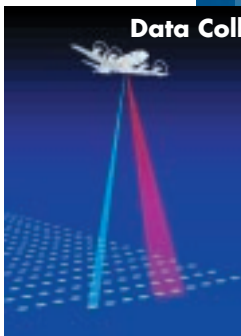


MEDEA

Vice Presidential Panel Report

A National Asset

June 1995



Data Collection



Technology



Science



To successfully enhance, protect, and optimize our nation's warfighting capabilities and resources, we must continuously refine our understanding of the physical environment as well as the mechanics, resources and theories of military operations. Our programs will push the state of the art in operational meteorology, oceanography and mapping sciences through advances in data collection, data processing, database management, product generation, and information visualization. We will incorporate progressively finer scale and complex physics models into our operations and will generate highly accurate atmospheric and oceanic forecasts. We will model the coupled dynamics of the atmosphere and ocean. Highly qualified warfighters and scientists will continue to comprise our community to ensure we maintain both a robust understanding of the physical environment and an intimate knowledge of how that relates to the full spectrum of military operations from peacetime engagement to conflict.

We will expand our technical abilities by partnering with other organizations, by optimizing technology investments, and by guiding the R&D efforts necessary to most effectively apply science to warfighting requirements. Improving our training and education, exploiting advanced computing and modeling resources, and developing data gathering, management and communications resources—these are the foundations that will enable us to aggressively execute our mission as an integral part of Force 2010.

Expand partnerships

Exploit external opportunities

Open architecture systems

Advance our science

Apply expertise better and faster,
anywhere on the globe

Improve our military skills



Precision Engagement
Dominant Maneuver
Full Dimensional Protection
Focused Logistics

We are part of Force 2010!



Safe Operating Forces



Enable planners to anticipate impacts, make informed decisions, and avoid losses due to the environment

Enhanced Warfighting Capabilities



Focus products on fine scale environmental effects

Optimized Warfighting Resources

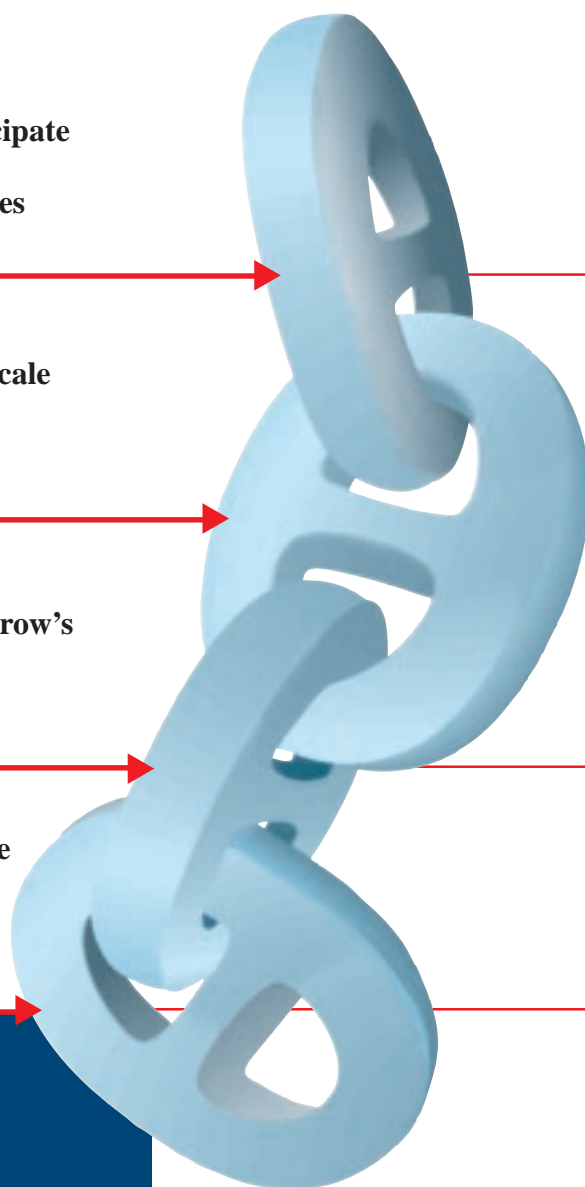


Meet the needs of tomorrow's weapons and sensors

Advanced Core Competencies



Apply scientific expertise better and faster, anywhere on the globe



No one else does all that we do!



Forward Engaged

From the Warfighters' Ranks

Listening and Understanding Your Needs

Making Your Operations Safer

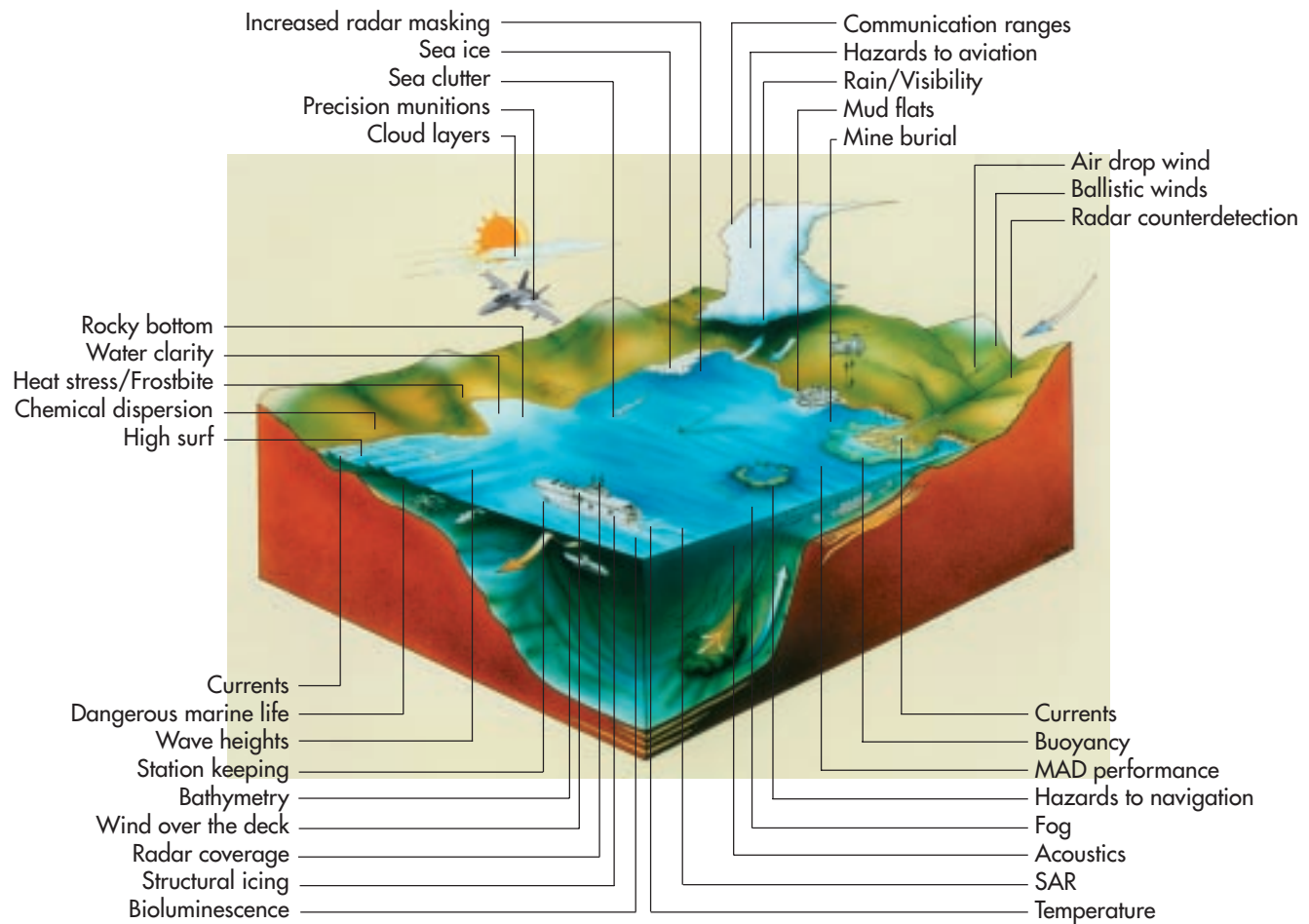
Making Your Job Easier

Saving You Money

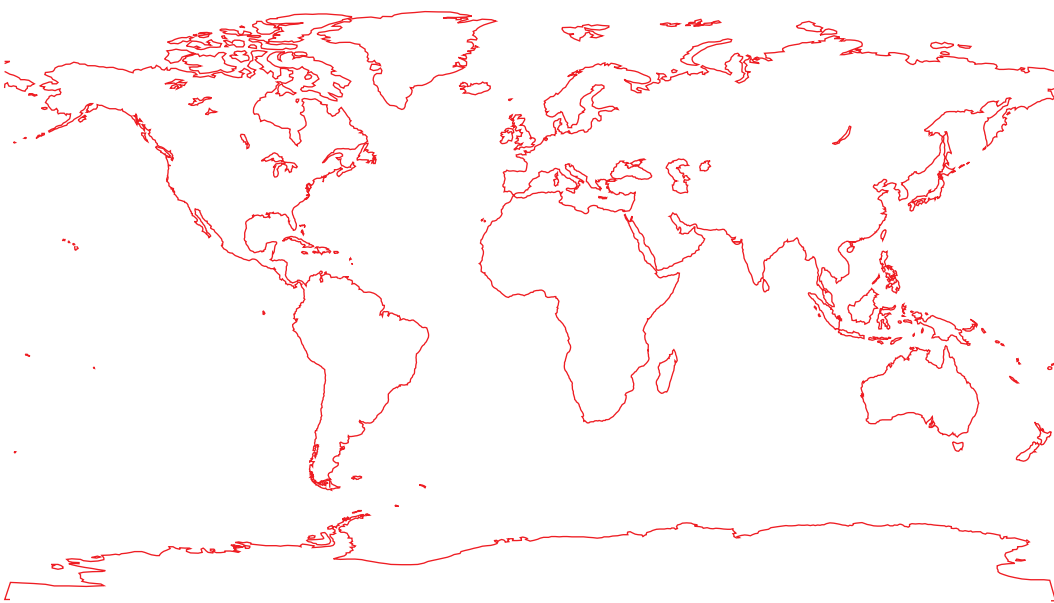
National Asset



The battlespace...



...environment



www.cnmoc.navy.mil

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